

AMENDMENTS TO THE SPECIFICATION:

- **Please amend the paragraph beginning at page 2, line 8 as follows:**

Restoring the state of the control includes restoring the state of another control that shares data with the control. ~~Restoring the state of the control includes restoring the state of another control that shares data with the control.~~ Restoring the state of the control occurs prior to transmitting the state of the control to a server.

- **Please amend the Brief Description of the Drawings beginning at page 3, line 16 as follows:**

FIG. 4 is an exemplary data tree.

FIG. 5 is a block diagram of one implementation of the system.

- **Please amend the paragraph beginning on page 6, line 12 as follows:**

In one implementation of the system 100, the undo mechanism detects changes to the controls by monitoring one or more data trees 310. As shown in FIG. 3, the one or more data trees 310 store the data associated with each control 130. Each control 130 includes a reference to the node in the data tree 310 where the control's data is stored. As shown in FIGS. 3 and 5, and also depicted in FIG. 4, a data tree may include more than one node.

- **Please amend the paragraph beginning at page 7, line 5 as follows:**

In one implementation of the system 100, as shown in FIG. ~~[[4]]~~ 5, the client program 110 is a Web browser 520 ~~[[420]]~~, the user interface 120 is a Web page 530

[[430]], and the undo mechanism 140 is provided by a software framework 510 [[410]] running in the Web browser 520 [[420]].

- **Please amend the paragraph beginning at page 7, line 8 as follows:**

The Web browser 520 [[420]] communicates with the server using HTTP (Hypertext Transfer Protocol). HTTP is a stateless protocol, meaning that each time the Web browser 520 [[420]] requests a Web page 530 [[430]], the server will respond to the request independently of any previous requests by the client device. The server response generally includes code, for example, HTML (Hypertext Markup Language) code, that specifies how to render the Web page 530 [[430]]. Rendering the Web page 530 [[430]] can involve generating a document object model (DOM) representation of the Web page 530 [[430]].

- **Please amend the paragraph beginning at page 7, line 15 as follows:**

The server response can also include code for establishing the framework 510 [[410]] in the Web browser 520 [[420]]. The framework code can include client-side scripting code such as, for example, JavaScript JAVASCRIPT™ or VBScript code. The framework code can be embedded in the code for the Web page 530 [[540]] or stored as a separate file that is referenced by the code for the Web page 530 [[430]]. The framework code can be generated based on metadata for the application that is running on the server.

- **Please amend the paragraph beginning at page 7, line 21 as follows:**

Once established, the framework 510 [[410]] includes one or more data structures (e.g., data trees) that store the state of each control in the Web page 530 [[430]]. The framework 510 [[410]] monitors the changes to the state of each control by monitoring the one or more data structures. The framework 510 [[410]] records the state changes in a list which can then be used by the undo mechanism 140 to undo the changes as described above. The undo mechanism 140 in such an implementation is independent of the controls, which means that the undo mechanism 140 can automatically provide undo functionality for new controls (or new types of controls) added to the client program without requiring code for an undo function for each new control (or each new type of control).